

# Rubin & Hays

ATTORNEYS AT LAW

Kentucky Home Trust Building, 450 South Third Street, Louisville, Kentucky 40202-1410  
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CHARLES S. MUSSON  
W. RANDALL JONES  
CHRISTIAN L. JUCKETT

November 26, 2007

RECEIVED

NOV 28 2007

PUBLIC SERVICE  
COMMISSION

Ms. Elizabeth O'Donnell  
Executive Director  
Kentucky Public Service Commission  
P.O. Box 615  
Frankfort, Kentucky 40602

2007-492

Re: Letcher County Water and Sewer District - Kentucky Public Service Commission  
Application for a CPCN for a Water System Improvements Project - Crafts Colley  
Water Project

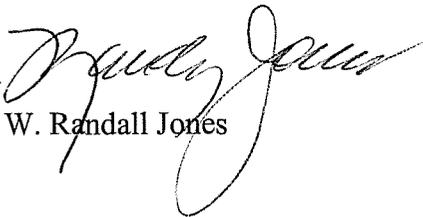
Dear Ms. O'Donnell:

Enclosed please find the original and ten (10) copies of the Application of the Letcher County Water and Sewer District for a Certificate of Public Convenience and Necessity to construct a water system improvements project pursuant to KRS Chapter 278.

Also enclosed are eleven (11) copies of the exhibits required, with the exception of the Plans and Specifications, prepared by Bell Engineers, Inc., on the Project, two of which are being forwarded by said Engineers.

Sincerely,

Rubin & Hays

By   
W. Randall Jones

WRJ:jl  
Enclosures

cc: Mr. Greg Pridemore, LCWSD  
Stephen Caudill, Bell Engineering

**WATER SYSTEM IMPROVEMENTS  
CRAFTS COLLEY PHASE 2 AREA  
LETCHER COUNTY  
WATER AND SEWER DISTRICT  
LETCHER COUNTY KENTUCKY  
NOVEMBER, 2007**



GRAPHIC SCALE

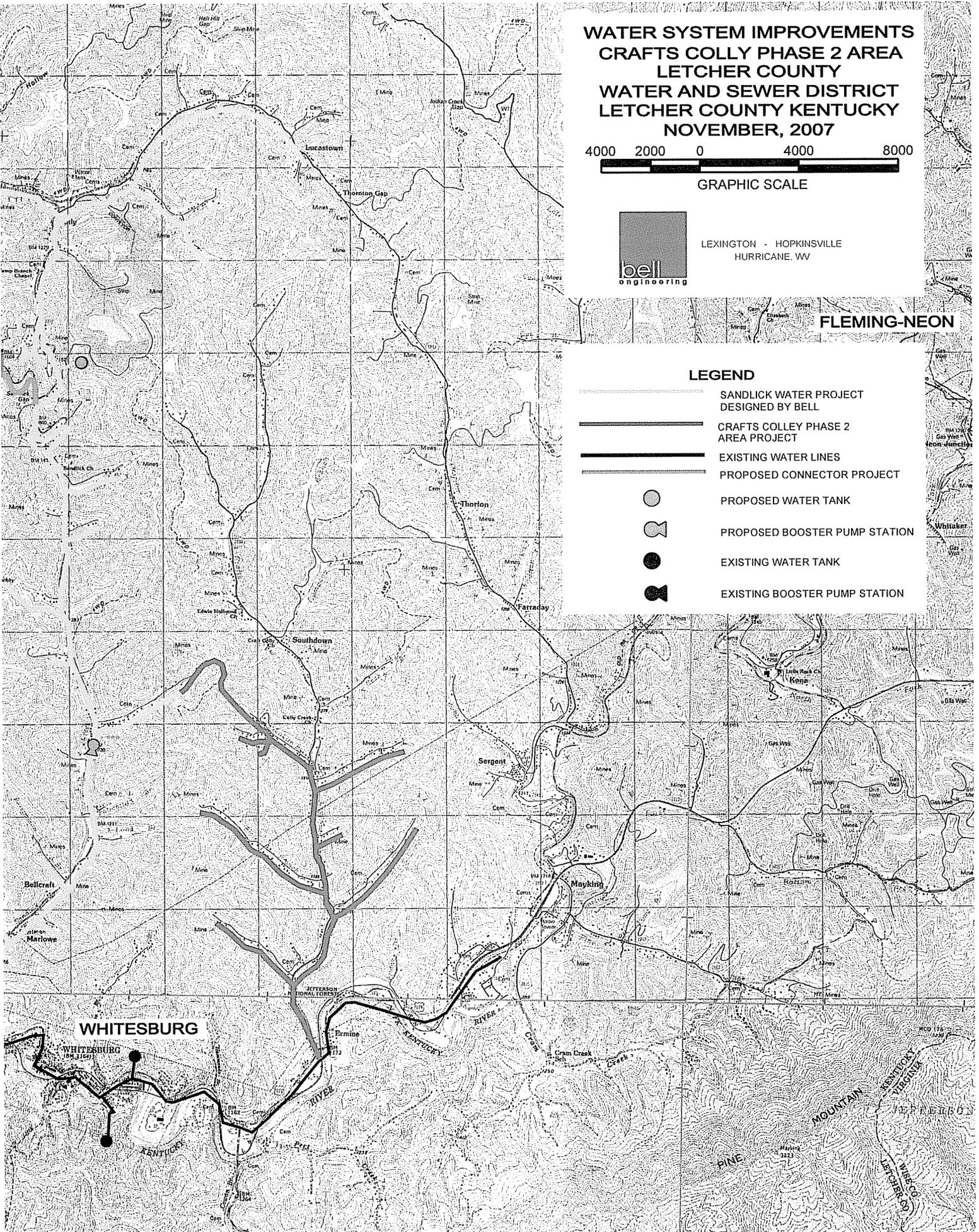


LEXINGTON - HOPKINSVILLE  
HURRICANE, WV

**FLEMING-NEON**

**LEGEND**

-  SANDLICK WATER PROJECT  
DESIGNED BY BELL
-  CRAFTS COLLEY PHASE 2  
AREA PROJECT
-  EXISTING WATER LINES
-  PROPOSED CONNECTOR PROJECT
-  PROPOSED WATER TANK
-  PROPOSED BOOSTER PUMP STATION
-  EXISTING WATER TANK
-  EXISTING BOOSTER PUMP STATION



**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE PUBLIC SERVICE COMMISSION**

**RECEIVED**  
NOV 28 2007  
PUBLIC SERVICE  
COMMISSION

In the matter of:

**APPLICATION OF THE LETCHER COUNTY WATER )  
AND SEWER DISTRICT FOR A CERTIFICATE )  
OF PUBLIC CONVENIENCE AND NECESSITY TO )  
CONSTRUCT A WATERWORKS IMPROVEMENTS )  
PROJECT PURSUANT TO KRS 278.020 AND 278.300 )**

Case No. 2607-492

**APPLICATION**

The Letcher County Water and Sewer District (the "District"), by counsel, pursuant to KRS 278.020, petitions the Commission for a certificate of public convenience and necessity to construct a waterworks improvement project. The following information is filed in accordance with the Commission's regulations:

1. The District's office address is P.O. Box 827, Whitesburg, Kentucky 41858. Its principal officers are listed in its 2006 Annual Report, which is on file with the Commission;
2. The District is a non-profit water district organized under KRS Chapter 74 and has no separate articles of incorporation or by-laws;
3. A description of the District's water system and its property stated at original cost by accounts is contained in its 2006 Annual Report, which is incorporated by reference pursuant to 807 KAR 5:001 Section (5)(5). All required normal financial schedules and other data are in the Annual Report;

4. The water improvements project (the "Project") consists of the construction and installation of approximately 40,000 linear feet of 3 inch, 4 inch, 6 inch and 8 inch water line to serve approximately 200 new customers in the Crafts Colley area of Letcher County;

5. The Project is in the public interest and will improve the District's system and provide water to approximately 200 new users who currently rely on wells, cisterns and springs for potable water;

6. The total project cost is approximately \$1,335,000, as forth in the Final Project Budget attached hereto as **Exhibit "A"**;

7. The District has obtained all of the easements for the Project;

8. This service will not compete with any other utility in the area;

9. Based on these facts, the District believes that it is in the public interest that this certificate be granted and that the plan of financing be authorized;

10. Copies of the certified bid tabulations are attached hereto as **Exhibit "B"**;

11. The following information is provided in response to 807 KAR 5:001 Section (8)(3);

a. Articles of Incorporation - None, the District is a statutorily created water district under KRS Chapter 74;

12. The following information is supplied to 807 KAR 5:001 Section (9)(2);

a. Facts relied upon to show that the Project is in the public interest: The water project will provide water service to approximately 200 new users who currently rely on wells, cisterns and springs for potable water;

b. No new franchises are required. Copies of the permits are attached hereto as **Exhibit "C"**;

c. Diagrams of the proposed construction and construction specifications are contained in the Plans and Specifications on file with the Commission;

d. Three (3) maps of suitable scale showing location of the proposed facilities are attached hereto;

e. The construction costs will be funded from the proceeds of (i) an Abandoned Mine Land (“AML”) grant in the amount of \$660,000; and (ii) a Kentucky Coal Severance grant in the amount of \$675,000;

f. The estimated cost of operation of the system after Project completion is attached hereto as **Exhibit “D”**;

**WHEREFORE**, the Applicant, Letcher County Water and Sewer District requests that the Public Service Commission of Kentucky grant to the Applicant a certificate of public convenience and necessity permitting the Applicant to construct a water system improvement project.

Letcher County Water and Sewer District

By Phillips A. Beck  
Chairman

Rubin & Hays

By W. Randall Jones  
W. Randall Jones  
Kentucky Home Trust Building  
450 South Third Street  
Louisville, Kentucky 40202  
(502) 569-7525





PROJECT BUDGET

CRAFTS COLLY WATER SYSTEM IMPROVEMENTS - PHASE 2

	Cost Classification	Abandoned Mine Lands Grant	Coal Severance	Funding Source 1	Funding Source 2	Funding Source 3	Funding Source 4	Local Funds	Unfunded Costs	Total
1	Administrative Expenses (1)		25,000							\$25,000.00
2	Legal Expenses									\$0.00
3	Land, Appraisals, Easements									\$0.00
4	Relocation Expense & Payments									\$0.00
5	Planning (2)		\$34,803.40							\$34,803.40
6	Engineering Fees - Design/Bidding		\$70,624.00							\$70,624.00
7	Engineering Fees - Construction		\$17,656.00							\$17,656.00
8	Engineering Fees - Inspection		\$55,897.00							\$55,897.00
9	Construction	660,000.00	\$336,381.45							\$996,381.45
10	Equipment		\$35,000.00							\$35,000.00
11	Contingency		\$99,638.15							\$99,638.15
12	Other - Interest			0.00	0.00	0.00	0.00	\$0.00	\$0.00	\$0.00
	<b>Total</b>	660,000.00		0.00	0.00	0.00	0.00	\$0.00	\$0.00	\$1,335,000.00

Funding Sources	Amount	Date Committed
1 Abandoned Mine Lands Grant	\$660,000.00	
2 Coal Severance	\$675,000.00	
<b>Total</b>	\$1,335,000.00	

Local Funding Sources	Amount	Date Committed
1		
2		
3		
<b>Total</b>		

**Total Funding** \$1,335,000.00



CONTRACT 519-07-01

WATER SYSTEM EXTENSIONS  
CRAFTS COLLEY AREA - PHASE 2  
DISTRIBUTION SYSTEM  
LETCHER COUNTY WATER AND SEWER DISTRICT  
LETCHER COUNTY, KENTUCKY

We certify that the following is a true and complete tabulation of all bids received by the Letcher County Water and Sewer District on August 30, 2007, for the titled project.

BELL ENGINEERING

*Steph. Coe*

ITEM NO.	ITEM	QUANTITY	UNIT	K. Carrender Construction Co., Inc. 200 Ringgold Road Somerset, Kentucky 42503		Akins Excavating Co., Inc. 182 Busy Lane Corbin, Kentucky 40701		Kenney, Inc. P.O. Box 1305 Mt. Sterling, Kentucky 40353		H2O Construction Co., Inc. 91 Hillcrest Drive Pikeville, Kentucky 41501		Statt's Construction Co., Inc. P.O. Box 1689 Columbia, Kentucky 42728		D.F. Bailey, Inc. P.O. Box 439 Owingsville, Kentucky 40360	
				UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
Division "A"															
1	3-inch Ductile Iron Pipe, Class 350, w/ Hydrocarbon Resistant Gaskets Furnishing, Trenching, Bedding, Laying and Backfilling, Copper Tracer Wire, Unclassified Excavation, Complete	400	L.F.	\$27.85	\$11,140.00	\$23.00	\$9,200.00	\$25.00	\$10,000.00	\$20.00	\$8,000.00	\$30.00	\$12,000.00	\$36.58	\$14,632.00
2	3-inch Class 250 (SDR 17) PVC Pipe, Furnishing, Trenching, Bedding, Laying and Backfilling, Copper Tracer Wire, Unclassified Excavation, Complete	10,625	L.F.	\$8.60	\$91,375.00	\$13.40	\$142,375.00	\$12.00	\$127,500.00	\$16.00	\$170,000.00	\$18.83	\$200,068.75		
3	4-inch Class 250 (SDR 17) PVC Pipe, Furnishing, Trenching, Bedding, Laying and Backfilling, Copper Tracer Wire, Unclassified Excavation, Complete	9,006	L.F.	\$9.20	\$82,855.20	\$14.00	\$126,084.00	\$13.00	\$117,078.00	\$13.00	\$117,078.00	\$16.50	\$148,599.00	\$19.57	\$176,247.42
4	6-inch Class 250 (SDR 17) PVC Pipe, Furnishing, Trenching, Bedding, Laying and Backfilling, Copper Tracer Wire, Unclassified Excavation, Complete	9,620	L.F.	\$15.15	\$145,743.00	\$15.70	\$151,034.00	\$14.00	\$134,680.00	\$19.00	\$182,780.00	\$18.25	\$175,565.00	\$21.72	\$208,946.40
5	8-inch Ductile Iron Pipe, Class 350, Furnishing, Trenching, Bedding, Laying and Backfilling, Unclassified Excavation, Complete	6,987	L.F.	\$25.85	\$180,613.95	\$25.00	\$174,675.00	\$28.00	\$195,636.00	\$30.00	\$209,610.00	\$32.00	\$223,584.00	\$34.00	\$237,558.00
6	3-inch Mechanical Joint Resilient Seated Gate Valve and Box, Including Concrete Collar, Complete	10	Each	\$450.00	\$4,500.00	\$500.00	\$5,000.00	\$650.00	\$6,500.00	\$600.00	\$6,000.00	\$650.00	\$6,500.00	\$436.39	\$4,363.90
7	4-inch Mechanical Joint Resilient Seated Gate Valve and Box, Including Concrete Collar, Complete	5	Each	\$500.00	\$2,500.00	\$555.00	\$2,775.00	\$750.00	\$3,750.00	\$700.00	\$3,500.00	\$700.00	\$3,500.00	\$481.28	\$2,406.40
8	6-inch Mechanical Joint Resilient Seated Gate Valve and Box, Including Concrete Collar, Complete	12	Each	\$650.00	\$7,800.00	\$700.00	\$8,400.00	\$800.00	\$9,600.00	\$1,000.00	\$12,000.00	\$850.00	\$10,200.00	\$592.92	\$7,115.04
9	8-inch Mechanical Joint Resilient Seated Gate Valve and Box, Including Concrete Collar, Complete	3	Each	\$900.00	\$2,700.00	\$1,038.00	\$3,114.00	\$1,200.00	\$3,600.00	\$1,200.00	\$3,600.00	\$1,050.00	\$3,150.00	\$784.75	\$2,354.25
10	5/8-inch x 3/4-inch Meter Setting, Including, Meter, Meter Box, Cover, Corporation Stop, Saddle, Tap, and Touch Read Assembly, Furnish and Install, Complete	18	Each	\$700.00	\$12,600.00	\$725.00	\$13,050.00	\$950.00	\$17,100.00	\$875.00	\$15,750.00	\$760.00	\$13,680.00	\$733.50	\$13,203.00
11	5/8-inch x 3/4-inch Meter Setting, Including PRV, Meter, Meter Box, Cover, Corporation Stop, Saddle, Tap, and Touch Read Assembly, Furnish and Install, Complete	163	Each	\$785.00	\$127,955.00	\$815.00	\$132,845.00	\$1,050.00	\$171,150.00	\$950.00	\$154,850.00	\$850.00	\$138,550.00	\$829.04	\$135,133.52
12	3/4-inch Polyethylene Service Pipe, Furnishing, Trenching, Bedding, Laying and Backfilling, or by Jacking, Copper Tracer Wire, Unclassified Excavation, Complete	4,698	L.F.	\$11.85	\$55,671.30	\$10.00	\$46,980.00	\$6.50	\$30,537.00	\$8.00	\$37,584.00	\$12.00	\$56,376.00	\$15.52	\$72,912.96
13	1-inch Polyethylene Service Pipe, Furnishing, Trenching, Bedding, Laying and Backfilling, or by Jacking, Copper Tracer Wire, Unclassified Excavation, Complete	852	L.F.	\$12.00	\$10,224.00	\$11.00	\$9,372.00	\$7.00	\$5,964.00	\$9.00	\$7,668.00	\$13.00	\$11,076.00	\$15.28	\$13,018.56
14	1-inch Corporation Stop, Furnish and Install, Complete	5	Each	\$200.00	\$1,000.00	\$375.00	\$375.00	\$200.00	\$1,000.00	\$75.00	\$375.00	\$150.00	\$750.00	\$129.37	\$646.85
15	10-inch x 0.250-inch Steel Cover Pipe, Including Casing Spacers and End Seals, Furnish and Install, Complete (by open cut or boring)	100	L.F.	\$30.00	\$3,000.00	\$34.00	\$3,400.00	\$50.00	\$5,000.00	\$65.00	\$6,500.00	\$30.00	\$3,000.00	\$31.63	\$3,163.00
16	Boring or Jacking for 10-inch Steel Cover Pipe, Unclassified Excavation	100	L.F.	\$90.00	\$9,000.00	\$88.00	\$8,800.00	\$175.00	\$17,500.00	\$65.00	\$6,500.00	\$145.00	\$14,500.00	\$85.74	\$8,574.00

ITEM NO.	ITEM	QUANTITY	UNIT	K. Carlander Construction Co., Inc. 200 Ringold Road Somerset, Kentucky 42503		Akins Excavating Co., Inc. 182 Busy Lane Corbin, Kentucky 40701		Kennedy, Inc. P.O. Box 1305 Mt. Sterling, Kentucky 40353		H2O Construction Co., Inc. 91 Hillcrest Drive Pikeville, Kentucky 41501		Scott's Construction Co., Inc. P.O. Box 1689 Columbia, Kentucky 42728		D.F. Bailey, Inc. P.O. Box 439 Owingsville, Kentucky 40360	
				UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
17	12-inch x 0.250-inch Steel Cover Pipe, Including Casing Spacers and End Seals, Furnish and Install, Complete (by open cut or boring)	35	L.F.	\$30.00	\$1,050.00	\$40.00	\$1,400.00	\$50.00	\$1,750.00	\$85.00	\$2,975.00	\$35.00	\$1,225.00	\$37.39	\$1,308.65
18	Boring or Jacking for 12-inch Steel Cover Pipe, Unclassified Excavation	35	L.F.	\$90.00	\$3,150.00	\$88.00	\$3,080.00	\$175.00	\$6,125.00	\$85.00	\$2,975.00	\$160.00	\$5,600.00	\$103.21	\$3,612.35
19	Test Meter Assembly, Furnish and Install, Complete	1	L.S.	\$1,200.00	\$1,200.00	\$877.00	\$877.00	\$1,000.00	\$1,000.00	\$900.00	\$900.00	\$1,100.00	\$1,100.00	\$659.22	\$659.22
20	Flushing Hydrant Assembly, Furnish and Install, Complete	5	Each	\$2,800.00	\$14,000.00	\$3,070.00	\$15,350.00	\$3,000.00	\$15,000.00	\$2,500.00	\$12,500.00	\$3,000.00	\$15,000.00	\$2,833.31	\$14,166.55
21	Blow-off Assembly, Furnish and Install, Complete	11	Each	\$800.00	\$8,800.00	\$570.00	\$6,270.00	\$1,000.00	\$11,000.00	\$2,000.00	\$22,000.00	\$650.00	\$7,150.00	\$772.26	\$8,494.86
22	Fiberglass Line Marker, Furnish and Install, Complete	31	Each	\$45.00	\$1,395.00	\$50.00	\$1,550.00	\$150.00	\$4,650.00	\$50.00	\$1,550.00	\$40.00	\$1,240.00	\$51.78	\$1,605.18
23	Pressure Reducing Station, Furnish and Install, Complete	2	Each	\$15,000.00	\$30,000.00	\$15,190.00	\$30,380.00	\$11,000.00	\$22,000.00	\$25,000.00	\$50,000.00	\$15,000.00	\$30,000.00	\$22,263.66	\$44,527.32
24	Pressure Relief Valve Assembly, Furnish and Install, Complete per Detail	2	Each	\$3,500.00	\$7,000.00	\$2,400.00	\$4,800.00	\$6,000.00	\$12,000.00	\$3,500.00	\$7,000.00	\$3,000.00	\$6,000.00	\$2,001.94	\$4,003.88
25	Automatic Air Release Valve Assembly, Furnish and Install, Complete per Detail	2	Each	\$1,500.00	\$3,000.00	\$600.00	\$1,200.00	\$1,200.00	\$2,400.00	\$1,000.00	\$2,000.00	\$700.00	\$1,400.00	\$647.81	\$1,295.62
26	Crushed Rock on Trench Surface, in Place	150	Ton	\$15.00	\$2,250.00	\$25.00	\$3,750.00	\$25.00	\$3,750.00	\$25.00	\$3,750.00	\$20.00	\$3,000.00	\$29.77	\$4,465.50
27	2-Inch Thickness Bituminous Surface Replacement, Trench Width, On Streets, Drives and Roads, Complete	250	L.F.	\$30.00	\$7,500.00	\$13.30	\$3,325.00	\$20.00	\$5,000.00	\$20.00	\$5,000.00	\$40.00	\$10,000.00	\$40.00	\$10,000.00
28	Extra for Mechanical Tamping of Trench Backfill, When Not Required by Plans and/or Specifications, Only On Order of the Engineer	20	C.Y.	\$20.00	\$400.00	\$50.00	\$1,000.00	\$20.00	\$400.00	\$200.00	\$4,000.00	\$80.00	\$1,600.00	\$196.10	\$3,922.00
29	Extra for Crushed Rock for Trench Stabilization, Only on Order of the Engineer	40	Ton	\$20.00	\$800.00	\$25.00	\$1,000.00	\$25.00	\$1,000.00	\$24.00	\$960.00	\$30.00	\$1,200.00	\$65.58	\$2,623.20
30	Extra for Crushed Rock for Pipe Bedding, Only on Order of the Engineer	40	Ton	\$20.00	\$800.00	\$25.00	\$1,000.00	\$25.00	\$1,000.00	\$24.00	\$960.00	\$30.00	\$1,200.00	\$29.69	\$1,187.60
Subtotal Division "A"					\$830,022.45		\$912,461.00		\$943,670.00		\$1,017,115.00		\$1,076,745.00		\$1,202,215.98
TOTAL BASE BID - CONTRACT 519-07-01					\$830,022.45		\$912,461.00		\$943,670.00		\$1,017,115.00		\$1,076,745.00		\$1,202,215.98
<b>BID ALTERNATE NO. 1: HURRICANE ROAD</b>															
1	8-inch Ductile Iron Pipe, Class 350, Furnishing, Trenching, Bedding, Laying and Backfilling, Unclassified Excavation, Complete	4,540	L.F.	\$25.85	\$117,359.00	\$25.00	\$113,500.00	\$28.00	\$127,120.00	\$30.00	\$136,200.00	\$32.00	\$145,280.00	\$34.00	\$154,360.00
2	8-Inch Mechanical Joint Resilient Seated Gate Valve and Box, including Concrete Valve Box Collar, Complete	2	Each	\$900.00	\$1,800.00	\$1,038.00	\$2,076.00	\$1,200.00	\$2,400.00	\$1,200.00	\$2,400.00	\$1,050.00	\$2,100.00	\$784.75	\$1,569.50
3	5/8-inch x 3/4-inch Meter Setting, including PRV, Meter, Meter Box, Cover Corporation Stop, Saddle, Tap, and Touch Read Assembly, Furnish and Install, Complete	20	Each	\$785.00	\$15,700.00	\$815.00	\$16,300.00	\$1,050.00	\$21,000.00	\$950.00	\$19,000.00	\$900.00	\$18,000.00	\$829.04	\$16,580.80
4	3/4-inch Copper Service Pipe, Type "K," Furnishing, Trenching, Bedding, Laying and Backfilling, or by Jacking, Unclassified Excavation, Complete	600	L.F.	\$18.00	\$10,800.00	\$15.00	\$9,000.00	\$13.00	\$7,800.00	\$12.00	\$7,200.00	\$17.00	\$10,200.00	\$14.27	\$8,562.00
5	Flushing Assembly, Furnish and Install, Complete	1	Each	\$2,800.00	\$2,800.00	\$3,070.00	\$3,070.00	\$3,000.00	\$3,000.00	\$2,500.00	\$2,500.00	\$3,000.00	\$3,000.00	\$2,833.31	\$2,833.31
6	Fiberglass Line Marker, Furnish and Install	1	Each	\$200.00	\$200.00	\$50.00	\$50.00	\$150.00	\$150.00	\$50.00	\$50.00	\$40.00	\$40.00	\$51.78	\$51.78
7	Crushed Rock on Trench Surface, in Place	100	Ton	\$15.00	\$1,500.00	\$25.00	\$2,500.00	\$25.00	\$2,500.00	\$15.00	\$1,500.00	\$20.00	\$2,000.00	\$29.77	\$2,977.00
8	2-Inch Thickness Bituminous Surface Replacement, Trench Width, On Streets, Drives, and Roads, Complete	500	L.F.	\$30.00	\$15,000.00	\$13.30	\$6,650.00	\$20.00	\$10,000.00	\$20.00	\$10,000.00	\$40.00	\$20,000.00	\$40.00	\$20,000.00







ENVIRONMENTAL AND PUBLIC PROTECTION CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Ernie Fletcher  
Governor

Division of Water  
14 Reilly Road  
Frankfort, Kentucky 40601-1190  
www.kentucky.gov

Teresa J. Hill  
Secretary

July 24, 2007

Mr. Don Profitt, Chairman  
Letcher Co Water & Sewer District  
PO Box 827  
Whitesburg, KY 41858

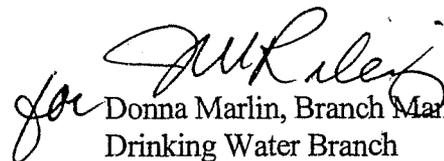
RE: Letcher Co Water & Sewer District,  
PWS--8737  
DW #0670652-07-001  
Crofts Colly Area-Phase II WLE  
Activity ID # APE20070001  
Letcher County, KY

Dear Mr. Profitt :

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of approximately 400 feet of 3-inch DI, 10,625 feet of 3-inch PVC, 9,006 feet of 4-inch PVC, 9,620 feet of 6-inch PVC and 6,987 feet of 8-inch DI water line. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the requirements contained in the enclosed waterline extension construction permit.

If you have any questions regarding this decision, please contact Sarah Tucker at 502/564-8158, extension 482.

Sincerely,

  
Donna Marlin, Branch Manager  
Drinking Water Branch  
Division of Water

DSM: SAT

C: Bell Engineering  
Letcher County H.D.  
Public Service Commission

**Distribution-Major Construction**  
 Letcher Co Water & Sewer District  
 Subject Item Inventory

Activity ID No.: APE20070001

**Subject Item Inventory:**

ID	Designation	Description
AIO08737		
PORT10	Water Line	400 feet of 3-inch DI, 10,625 feet of 3-inch PVC, 9,006 feet of 4-inch PVC, 9,620 feet of 6-inch PVC and 6,987 feet of 8-inch DI

**Subject Item Groups:**

ID	Description	Components
GACT5	400 feet of 3-inch DI, 10,625 feet of 3-inch PVC, 9,006 feet of 4-inch PVC, 9,620 feet of 6-inch PVC and 6,987 feet of 8-inch DI	PORT10 400 feet of 3-inch DI, 10,625 feet of 3-inch PVC, 9,006 feet of 4-inch PVC, 9,620 feet of 6-inch PVC and 6,987 feet of 8-inch DI

**KEY**

ACTV = Activity  
 AREA = Area  
 EQPT = Equipment  
 PERS = Personnel  
 STOR = Storage  
 TRMT = Treatment

AIOO = Agency Interest  
 COMB = Combustion  
 MNPT = Monitoring Point  
 PORT = Transport  
 STRC = Structure

**Distribution-Major Construction**  
 Letcher Co Water & Sewer District  
 Facility Requirements

Activity ID No.: APE20070001

**GACT5 (continued):**

**Narrative Requirements:**

**Additional Limitations:**

Condition No.	Condition
T-1	Additional Limitations: Chlorinated water resulting from disinfection of project components shall be disposed in a manner which will not violate 401 KAR 5:031. [401 KAR 8:020 Section 2(20)]

Condition No.	Condition
T-2	This project has been permitted under the provisions of KRS Chapter 224 and regulations promulgated pursuant thereto. Issuance of this permit does not relieve the applicant from the responsibility of obtaining any other approvals, permits or licenses required by this Cabinet and other state, federal and local agencies. Further, this permit does not address the authority of the permittee to provide service to the area to be served. [401 KAR 8:100 Section 1(7)]
T-3	Unless construction of this project is begun within 1 year from the issuance date of this permit, the permit shall expire. If requested prior to the permit expiration, an official extension from the Division of Water may be granted. If this permit expires, the original plans and specifications may be resubmitted for a new comprehensive review. If you have any questions concerning this project, please contact the Drinking Water Branch at 502/564-3410. [401 KAR 8:100 Section 1(9)]
T-4	During construction, a set of approved plans and specification shall be available at the job site at all times. All work shall be performed in accordance with the approved plans and specifications. [401 KAR 8:100 Section 1(7)(a)]

## Distribution-Major Construction

Letcher Co Water & Sewer District  
Facility Requirements

Activity ID No.: APE20070001

### PORT10 (continued):

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-9	Distance	<p>When water lines and sewers cross,</p> <ol style="list-style-type: none"> <li>1) water lines shall be laid such that either               <ol style="list-style-type: none"> <li>a) the top of the water line is a vertical Distance <math>\geq 18</math> in below the bottom of the sewer line or</li> <li>b) the bottom of the water line is a vertical Distance <math>\geq 18</math> in above the top of the sewer line,</li> </ol> </li> <li>2) 1 full length of the water pipe shall be located so that both joints of the water pipe will be as far from the sewer as possible, and</li> <li>3) special structural support for the water and sewer pipes may be required. [Recommended Standards for Water Works 8.6.3] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.</li> </ol>
L-10	Distance	<p>The open end of an air relief pipe from automatic valves shall be extended a Distance <math>\geq 1.0</math> ft above grade and provided with a screened, downward-facing elbow. The pipe from a manually operated valve shall be extended to the top of the pit. Use of manual air relief valves is recommended wherever possible. [Recommended Standards for Water Works 8.4.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.</p>
L-11	Pressure	<p>Pipes shall not be installed unless all points of the distribution system remain designed for ground level Pressure <math>\geq 20</math> psi under all conditions of flow. [Recommended Standards for Water Works 8.1.1] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.</p>
L-12	Pressure	<p>Pressure <math>\geq 30</math> psi must be available on the discharge side of all meters. [401 KAR 8:100 Section 4(2)] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.</p>
L-13	Residual Disinfection	<p>New or relocated water lines shall be thoroughly disinfected (in accordance with AWWA Standard C651) upon completion of construction and before being placed into service. To disinfect the new or relocated lines use chlorine or chlorine compounds in such amounts as to produce an initial disinfectant concentration of at least 50 ppm and a Residual Disinfection <math>\geq 25</math> ppm at the end of 24 hours. Follow the line disinfection with thorough flushing and place the lines into service if, and only if, Coliform monitoring applicable to the line does not show the presence of Coliform.</p> <p>If Coliform is detected, repeat flushing of the line and Coliform monitoring. If Coliform is still detected, repeat disinfection and flushing as if the line has never been disinfected. Continue the described process until monitoring does not show the presence of Coliform. [401 KAR 8:150 Section 4(1), Recommended Standards for Water Works 8.5.6] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.</p>

## Distribution-Major Construction

Letcher Co Water & Sewer District  
Facility Requirements

Activity ID No.: APE20070001

### PORT10 (continued):

#### Narrative Requirements:

#### Additional Limitations:

Condition No.	Condition
T-4	<p><b>Additional Limitations:</b> All tees, bends, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement. [Recommended Standards for Water Works 8.5.4]</p>
T-5	<p><b>Additional Limitations:</b> For lines that dead end, a fire hydrant or blow-off shall be required at the end of each 6 inch or larger diameter line and a flush hydrant or blow-off shall be required at the end of each line that is less than 6 inches in diameter. [Recommended Standards for Water Works 8.1.6]</p>
T-6	<p><b>Additional Limitations:</b> For each fire or flush hydrant, auxiliary valves shall be installed in the hydrant lead pipe. [Recommended Standards for Water Works 8.3.3]</p>
T-7	<p><b>Additional Limitations:</b> No flushing device, blow-off, or air relief valve shall be directly connected to any sewer. Chambers, pits or manholes containing valves, blow-offs, meters, or other such appurtenances shall not be directly connected to any storm drain or sanitary sewer. Such chambers, pits or manholes shall be drained to absorptions pits underground or to the surface of the ground where they are not subject to flooding by surface water. [Recommended Standards for Water Works 8.1.6, Recommended Standards for Water Works 8.4.3]</p>
T-8	<p><b>Additional Limitations:</b> If water lines are installed or replaced in areas of organic contamination or in areas within 200 ft of underground or petroleum storage tanks, ductile iron or other nonpermeable materials shall be used in all portions of the water line installation or replacement. [401 KAR 8:100 Section 1(5)(d)6, Recommended Standards for Water Works 8.0.2]</p>
T-9	<p><b>Additional Limitations:</b> No water pipe shall pass through or come in contact with any part of a sewer manhole. [Recommended Standards for Water Works 8.6.6]</p>
T-10	<p><b>Additional Limitations:</b> If a fire sprinkler system is to be installed, a double check detector assembly approved for backflow prevention shall be utilized. The double check detector assembly of the system shall be accessible for testing. [401 KAR 8:100 Section 1(7)]</p>



**LECHER COUNTY WATER AND SEWER DISTRICT  
PROJECTED O&M COST AFTER CONSTRUCTION OF  
CRAFTS COLLY WATER IMPROVEMENTS PROJECT**

<u>DESCRIPTION</u>	<u>AVERAGE MONTHLY COST</u>	<u>AVERAGE YEARLY COST</u>
Electrical Cost @ Pump Stations	\$ 500.00	\$ 6,000.00
Electrical Cost @ Tank	\$ 20.42	\$ 245.00
Postage	\$ 600.00	\$ 7,200.00
Labor	\$ 10,285.00	\$ 123,420.00
Supplies	\$ 600.00	<u>\$ 7,200.00</u>
 <b>Total</b>		 <b>\$ 144,065.00</b>

Note 1: Assumes existing District employees will be utilized for project related activities.

Note 2: Does not include purchase cost of water.

Note 3: Calculation of O&M Costs associated with first year of operation when the project is still under warranty.